

What is claimed is:

1. A method for constructing a WVPN(Wireless Virtual Private Network) for a CDMA system which includes a mobile telephone serviced by a private network group, a BTS (Base Transceiver System) for transmitting and receiving a message with the mobile telephone, a BSC (Base Station Controller) for managing the BTS, a MSC (Mobile Switching Center) including a MSA (Mobile Signaling Access), a MCC (Mobile Call Control), and a VLR (Visitor Location Register), a HLR (Home Location Register), and a SCP (Service Control Point) for storing an extension number with respect to a calling subscriber serviced by a private network group, a method for constructing a WVPN for a CDMA system comprising the steps of:

a first step for registering a private network group and extension number to the SCP and judging whether a call by a certain calling subscriber corresponds to an extension number or a MDN (Mobile Directory Number) when a certain calling subscriber calls a certain receiving subscriber of the same group as the calling subscriber; and

a second step for constructing a mobile communication network using the MDN in the case that as a result of the first step the call by the calling subscriber corresponds to the MDN and constructing a WVPN in the case that the call by the calling subscriber corresponds to the extension number.

2. The method of claim 1, wherein said second step includes:
a first sub-step for requesting a telephone of the calling
subscriber to the HLR, transmitting a telephone number and
5 extension number to the SCP with respect to the calling subscriber,
requesting a MDN information of the receiving subscriber, and
judging whether there is a group of the telephone number of the
calling subscriber;

a second sub-step for judging whether the extension number
10 transmitted to the SCP exists in the group of the calling subscriber
in the case that when there is the group of the telephone number of
the calling subscriber as a result of the judgement of the first
sub-step; and

a third sub-step for constructing the WVPN by transmitting the
15 MDN corresponding to the receiving extension number to the MCC in
the case that the extension number exists in the group of the calling
subscriber as a result of the judgement of the second sub-step.

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A1
20 3. The method of claim 2, further comprising a sub-step for
transmitting a non-available call connection guide message to the
calling subscriber in the case that there is not a group of the
telephone number of the calling subscriber as a result of the
judgement of the first sub-step and in the case that the extension
number exists in the group of the calling subscriber as a result of

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A1 } the judgement of the second sub-step.

Add B1 }

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5 C2 }

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